## RISK ASSESSMENT KEY (Based on DWS 2015 publication: Section 21 c and I water use Risk Assessment Protoco)

### **Negative Rating**

## **TABLE 1- SEVERITY**

How severe does the aspects impact on the resource quality (flow regime, water quality, geomorphology, biota, habitat)?

now severe does the aspects impact on the resource quality (now regime, water quality, geomorpho	ogy, blota, habitat):
Insignificant / non-harmful	1
Small / potentially harmful	2
Significant / slightly harmful	3
Great / harmful	4
Disastrous / extremely harmful and/or wetland(s) involved	5
Where "or wetland(s) are involved" it means that the activity is located within the delineated	
houndary of any wetland. The score of 5 is only compulsory for the significance rating	

## TABLE 2 – SPATIAL SCALE

a that the aspect is impacting on?

Tiow big is the area that the aspect is impacting on:	
Area specific (at impact site)	1
Whole site (entire surface right)	2
Regional / neighboring areas (downstream within quaternary catchment)	3
National (impacting beyond seconday catchment or provinces)	4
Global (impacting beyond SA boundary)	5

#### TABLE 3 - DURATION

How long does the aspect impact on the resource quality?

now long does the aspect impact on the resource quality:	
One day to one month, PES, EIS and/or REC not impacted	1
One month to one year, PES, EIS and/or REC impacted but no change in status	2
One year to 10 years, PES, EIS and/or REC impacted to a lower status but can be improved over this	
period through mitigation	3
Life of the activity, PES, EIS and/or REC permanently lowered	4
More than life of the organisation/facility, PES and EIS scores, a E or F	5
PES and EIS (sensitivity) must be considered	

#### TABLE 4 – FREQUENCY OF THE ACTIVITY

How often do you do the specific activity?

Annually or less	1
6 monthly	2
Monthly	3
Weekly	4
Daily	5

#### TABLE 5 – FREQUENCY OF THE INCIDENT/IMPACT

How often does the activity impact on the resource quality?

Almost never / almost impossible / >20%	1
Very seldom / highly unlikely / >40%	2
Infrequent / unlikely / seldom / >60%	3
Often / regularly / likely / possible / >80%	4
Daily / highly likely / definitely / >100%	5

#### TABLE 6 – LEGAL ISSUES

How is the activity governed by legislation?

now is the activity governed by legislation:	
No legislation	1
Fully covered by legislation (wetlands are legally governed)	5
Located within the regulated areas	

## TABLE 7 – DETECTION

How quickly/easily can the impacts/risks of the activity be observed on the resource quality, people and property?

- 10 th quietting cash the impacts from the activity be observed on the resource quality, people and property.	
Immediately	1
Without much effort	2
Need some effort	3
Remote and difficult to observe	4
Covered	5

## **TABLE 8: RATING CLASSES**

RATING	CLASS	MANAGEMENT DESCRIPTION
1-55	(L) Low Risk	Acceptable as is or consider requirement for mitigation. Impact to watercourses and resource quality small and easily mitigated.
56 – 169	M) Moderate Risk	Risk and impact on watercourses are notably and require mitigation measures on a higher level, which costs more and require specialist input. Licence required.
170 – 300	(H) High Risk	Watercourse(s) impacts by the activity are such that they impose a long-term threat on a large scale and lowering of the Reserve. Licence required.

A low risk class must be obtained for all activities to be considered for a GA

## **TABLE 9: CALCULATIONS**

Consequence = Severity + Spatial Scale + Duration

Likelihood = Frequency of Activity + Frequency of Incident + Legal Issues + Detection

Significance\Risk = Consequence X Likelihood

# THE ASSESSOR MUST:

- 1) CONSIDER BOTH CONSTRUCTION AND OPERATIONAL PHASES OF PROPOSED ACTIVITIES;
- 2) CONSIDER RISKS TO RESOURCE QUALITY POST MITIGATION CONSIDERING MITIGATION MEASURES LISTED IN TABLES PROVIDED;
- 3) CONSIDER THE SENSITIVITY (ECOLOGICAL IMPORTANCE AND SENSITIVITY EIS) AND STATUS (PRESENT ECOLOGICAL STATUS - PES) OF THE WATERCOURSE AS RECEPTOR OF RISKS POSED;
- 4) CONSIDER POSITIVE IMPACTS/RISKS REDUCTION AS A VERY LOW RISK IN THIS ASSESSMENT; 5) INDICATE CONFIDENCE LEVEL OF SCORES PROVIDED IN THE LAST COLUMN AS A PERCENTAGE

ON THE EXCELL SPREADSHEET POP-UP COMMENTS ARE AVAILABLE FOR ALL COLUMNS IN THE

HEADINGS WHICH EXPLAINS THE PURPOSE OF EACH COLUMN!